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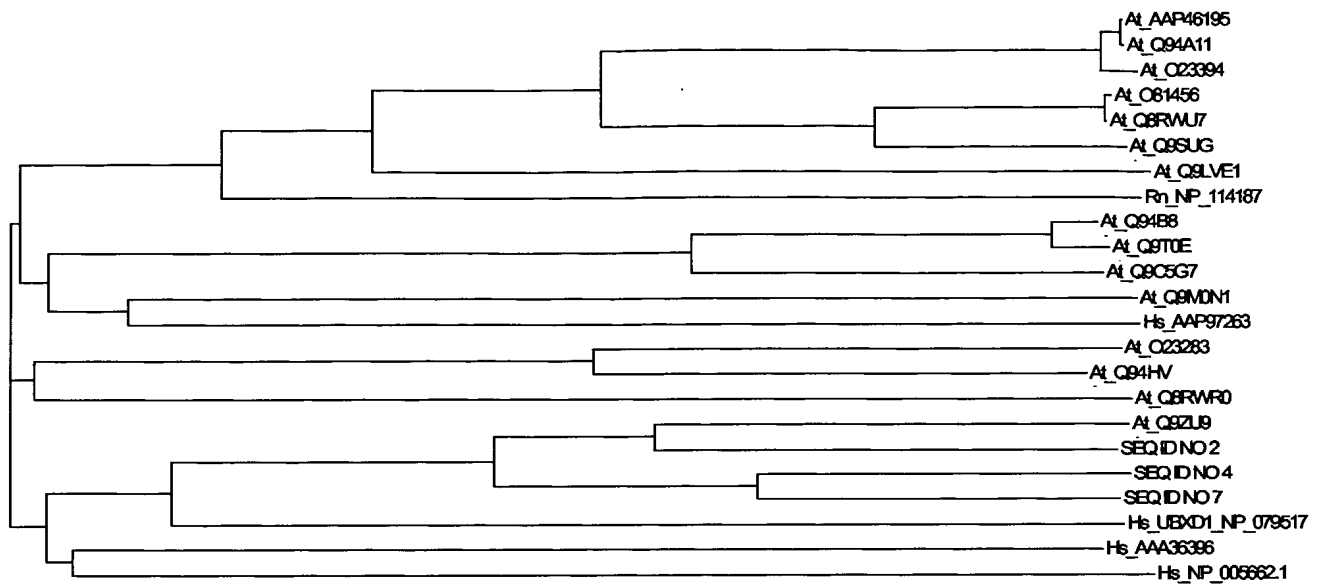


FIGURE 1 A

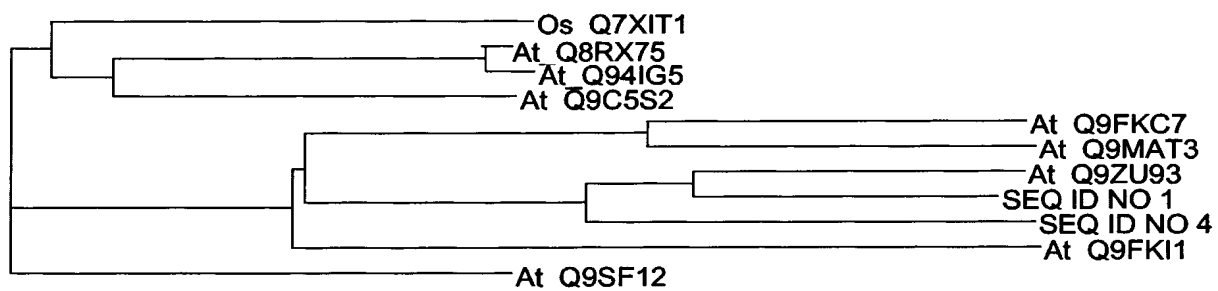


FIGURE 1B

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Consensus terms for the UBX domain

YJE8\_YEAST KGFLAQ-NYCTLQLKLPNGYTISNTFP-PQTKLHKVRMWL-----DYNCYDDGTP-----  
 CONSENSUS/80% s.t..t...splplRhssGpph.ppF..spp.lptlhthl.....s.sss.....  
 CONSENSUS/65% stpptt.stsplQlRhssGpphsppFs.uppslpplhphl....t...s.ssss.....  
 CONSENSUS/50% Ppppss.sps+LQlRhPDGpplscCFs.us-sLcplapaV....sptpssusss.....

YJE8\_YEAST -----YLFHRNIPRVTLTRNDELKSLQEL-DLLPRSTLILEP  
 CONSENSUS/80% .....apl.pshPch.hspt-..hph.p..thhspsslll..  
 CONSENSUS/65% .....FpL.pshP+c.hsps-..ppl.ch.tlhPsuslllt..  
 CONSENSUS/50% .....FpLpssaPR+slocsD..KoLp-1.sLhPsuoLlLct

Consensus terms for the PUG domain

AAF74723 EASKLLLYADNILRNPSDEKYRSIRIGNTAFSTRLLPVRGAVECLFEMGFEEG-----  
 CONSENSUS/80% tslt.LLphhcNhhpp.p-.....s..hphlh.h.tsh..h...tF.ph.....  
 CONSENSUS/65% pslpsLL+hl+Nhhcc.pE.....stthpctltpl.sshphhthtFsc1.h....  
 CONSENSUS/50% solccLLRh1RNlh+HhcEt.....tspp1+EplGslP-uhcpaFsssFPcLhh....

AAF74723 --ETHLIFPK  
 CONSENSUS/80% ...phh.h.p  
 CONSENSUS/65% ...phathhp  
 CONSENSUS/50% ...csYplss

**FIGURE 2 A**

UBX domain present in SEQ ID NO 2

339 KAARKKYTKSIIRVQFPDQALLQGVFLPSEPTSALEYEFVSAALKEPSLEFELLHPVLVKKRVIPHF  
 PAAGERAVTVEEEDLVPAALLKFK 428

PUG domain present in SEQ ID NO 2:

173 GSVEVVIKLLKNIVKEPENAKFRKIRMGNPKIKGAIGDVVGGVELLEFVGFELKEEGGEIWA VMDV  
 PS 240

UBX domain present in Q9ZU93

345 KAARKRYKRSMIRVQFPDGVVLQGVFAPWEPTFALYEFVSSALKEPSLQFELLDPVLVKRRVIPHT  
 PAPGQKPITLEDEELVPSALIRFRP 435

PUG domain present in Q9ZU93

181 SSIDVLLRLFKNIVKEPENAKFRKVRMSNAKIKEAIGDVAGGVLELVLGVFELKEENDEIWA VMDV  
 PS 248

**FIGURE 2 B**

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Q9ZU93	1	MDDVKDKLKGFMKKVNLSSSSGKFKQGGRVLGSSSSSSAPPVNP IQNRFN	50
SEQ_ID_NO_2	1	MGDMKDKVKGFMKKVT-SSSSGKFKQGGRVLGGSSSSG--PSNHV-NNFS	46
Q9ZU93	51	S-----SQAPNPTPRPKPNPNPLPEKPLSSSDQKISGSTR---NPDHD	90
SEQ_ID_NO_2	47	SHPLNTRQDQQPSYT-----KTSPQKP-SNSDQRIENICEIQFNKSES	88
Q9ZU93	91	PVRAPQDGFDPYGAFITSSNRSQNGYSL-SMFECPICKNPFTSEEEVSVH	139
SEQ_ID_NO_2	89	-----KDGFDPFGELVTSGKRNPKGYSLTNVFECPCVCGSGFVSEEEVSTH	133
Q9ZU93	140	VESCLG---DTN-GDESSFEDKNDNDNDKSEMEKLVVVYLSGKPSESSIDV	185
SEQ_ID_NO_2	134	IDSCLSSEVSSNLGVESKVEV-----KSELETCVSAYVSGKPSEGVSVEV	177
Q9ZU93	186	<u>LLRLFKNIVKEPENAKFRKVRMSNAKIKEAIGDVAGGVELLELVGFELKE</u>	235
SEQ_ID_NO_2	178	<u>VIKLLKNIVKEPENAKFRKIRMGNPKIKGAIGDVVGVELLEFVGFEELKE</u>	227
Q9ZU93	236	<u>ENDEIWAVMDVPSEEQ</u> SILINKVVGYLEKRKTESGSSAQV--MEPVAPK	283
SEQ_ID_NO_2	228	<u>EGGEIWAVMDVPSEEQ</u> LVMLKNVVSLLLEPKKVEELASLSQVKASEPVEPK	277
Q9ZU93	284	KIDREIRVFFSVSENVASRIEVPDSFYLSADEIKREADLRRKKIAESQL	333
SEQ_ID_NO_2	278	KIDRQIRVFFSVPEVAAKIELPDSFFNLSREELRREAEMRKKKLED SKL	327
Q9ZU93	334	LIPRSYKEKQAKAARKRYKRSMIRVQFPDGVVLQGVFAPWEPTFALYEFV	383
SEQ_ID_NO_2	328	LIPKSYREKQAKAARKKYTKSIIRVQFPDGALLQGVFLPSEPTSALEYEFV	377
Q9ZU93	384	SSALKEPSLQFELLDPVLVKRRVIPHTPAPGQKPITLEDEELVPSALIRF	433
SEQ_ID_NO_2	378	SAALKEPSLEFELLHPVLVKRRVIPHFPAAGERAVTVEEEDLVPAALLKF	427
Q9ZU93	434	RPIETDSLVTGLRNELLEISEPLS	458
SEQ_ID_NO_2	428	KPIETDSVVFTGLCNELLEISEPLETGSVASS	459

FIGURE 2 C

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SEQ_ID_NO2	1	MGDMKDKVKGFMMKKVTSSSSG---KFKGQGRVLGGSSSSSGPSNHVNNFSS	47
		. .	
SEQ_ID_NO4_C	1	mmkdkmkefmkktsssgsgtpssfkgtshvlg----sgpsps----ss	40
SEQ_ID_NO2	48	HPL----NTRQDQQPSYTKTSPQKPSNSDQRIENICEIQFNKSESKDGFD	93
		.  ...: : : . . . . . . . . . . . . . . . . .	
SEQ_ID_NO4_C	41	hpaarssnpsnlrpapkrtsptptlttdlts-----	74
SEQ_ID_NO2	94	PFGEIVTSGKRNPKGYS--LTNVFECPCVCGSGFVSEEEVSTHIDSCLS	140
		.. .	
SEQ_ID_NO4_C	75	-ftplvcyssrrpdangtaCavatvacpscgcgdafpselavsehldgclas	123
SEQ_ID_NO2	141	EVSSNLGVESKVEVKSELETCVSAYVSG--KPSEGSVVVILLKNIVKE	188
		..  ...:  ...:..  ... . . . . . . . . . . . . .	
SEQ_ID_NO4_C	124	ag----garar-----aaaylaadppppaasvevvkrllgnllre	159
SEQ_ID_NO2	189	PENAKFRKIRMGNPKIKGAIGDVVGGVELLEFVGFELKEEGGEIWAVMD-	237
		. .	
SEQ_ID_NO4_C	160	pgndkfrvrllgnpriekaladrdggvelleavgftvgdeggepfavmde	209
SEQ_ID_NO2	238	VPSEEQLVMLKNVVSLE-----PKKVEELASLSQVKASEPVE-PKKI	279
		:.. ...:.. . .   . . . . . . . . . . . . .	
SEQ_ID_NO4_C	210	vpsdprlngirravlllegahpsappvkaeaeakescsnvsvqegakti	259
SEQ_ID_NO2	280	DRQIRVFFSVPEVAACKIELPDSFFNLSREELRREAEMRKKKLEDSKLLI	329
		. . . . . . . . . . . . . . . . . . . .	
SEQ_ID_NO4_C	260	drqirvfvsvpgssmaqndvpdsfyklsgeeirneakmrrerleqsrlli	309
SEQ_ID_NO2	330	PKSYREKQAKAARKKYTKSIIRVQFPDQALLQGVFLPSEPTSALEYFVSA	379
		:    . . . . . . . . . . . . . . . . . . .	
SEQ_ID_NO4_C	310	pksykekqalaaarkykqavirvqfpdrmilqgflpgeatsslyefvts	359
SEQ_ID_NO2	380	ALKEPSLEFELLHPVLVKKRVIPHFPAAGERAVTVEEEDLVPAALLKFKP	429
		:.. . . . . . . . . . . . . . . . . . . .	
SEQ_ID_NO4_C	360	alkqsglefelispaipkprvvphfpnngerartlqeeelvpsallkfip	409
SEQ_ID_NO2	430	IETDSVVFTGLCNELLEISEPLETGSVASS	459
		. .	
SEQ_ID_NO4_C	410	ketdsmvftgllldellmaseplpaasq	436

FIGURE 2 D

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SEQ_ID_NO_4	1	mmkdkmkefmkkvt--ssgsgtpssfkgtshvlgsgpspssshpaarssn	48
SEQ_ID_NO_7	1	MMKEKMKDLMRKVTSSSSSSSSSSSFKGTAVHLGSGPDPSS-----RPSN	45
SEQ_ID_NO_4	49	pspnlrpapkrtspptpptlttdltsftplvcyssrr--pdangtaCava	96
SEQ_ID_NO_7	46	PTPSRPAAPRREAAASARPPSSGFAPYSPLISTSSRRTDPPAGAGAGEDD	95
SEQ_ID_NO_4	97	tvacpscgdafpselavsehldgclasaggararaaaylaadppppaasv	146
SEQ_ID_NO_7	96	AVACPSCAEPFPSELAVSDHLDGCLAAAGGARPRAAAYLAGD--PPASAV	143
SEQ_ID_NO_4	147	evvkrllgnllrepngndkfrvrllgnprikealadrdggvelleavgftv	196
SEQ_ID_NO_7	144	<u>EVVKRLLGNLLSDPRNDKYRKVRLGNPRIKEALADREGGVDLLEAVGFRV</u>	193
SEQ_ID_NO_4	197	gdeggepfavmdevpsdprlngirravlllegahpsappvkaeaeakesc	246
SEQ_ID_NO_7	194	<u>ADEGGELFALMDEVPGDARLGGIRQAVLLLERARPSTPP-QTQADAKETC</u>	242
SEQ_ID_NO_4	247	sn-vsdvqegaktidrqirvfsvpgssmaqndvpdsfyklsgeeirnea	295
SEQ_ID_NO_7	243	PNGVSEEQGIKKPVDRQIRVFFSVAASSVAENDLPDSFYSLSNEEIRNEA	292
SEQ_ID_NO_4	296	kmrrerleqsrllipksykekqalaarqkykqavirvqfpdrmilqgfl	345
SEQ_ID_NO_7	293	KMRREERLEQSRLIPKSYKEKQ <b>ALAAARQKYQALIRIQFPDGVILQGVFL</b>	342
SEQ_ID_NO_4	346	<b>pgeatsslyefvtsalkqsglefelispaipkprvvphfpnpgerartlq</b>	395
SEQ_ID_NO_7	343	<b>PAEPISSLYEFVASSLKQPSLEFDLICPAGPRTRVIPFPKPGEQARTLR</b>	392
SEQ_ID_NO_4	396	<b>eeelvpsallkfipketdsmvftgllldellmaseplpaasq</b>	436
SEQ_ID_NO_7	393	<b>DEDLVPSARLTFKPKETDSVVFTGLLDELLETSEPFPTSASS</b>	433

FIGURE 2 E

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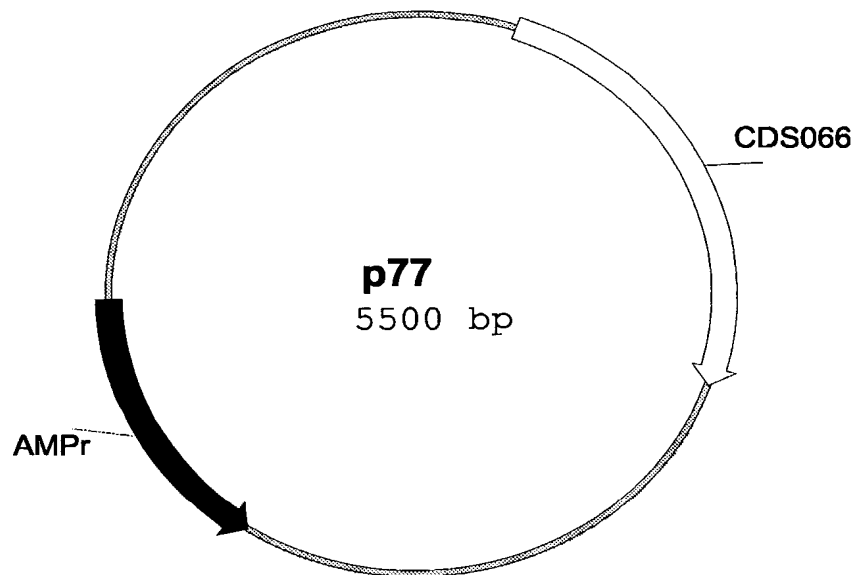


FIGURE 3

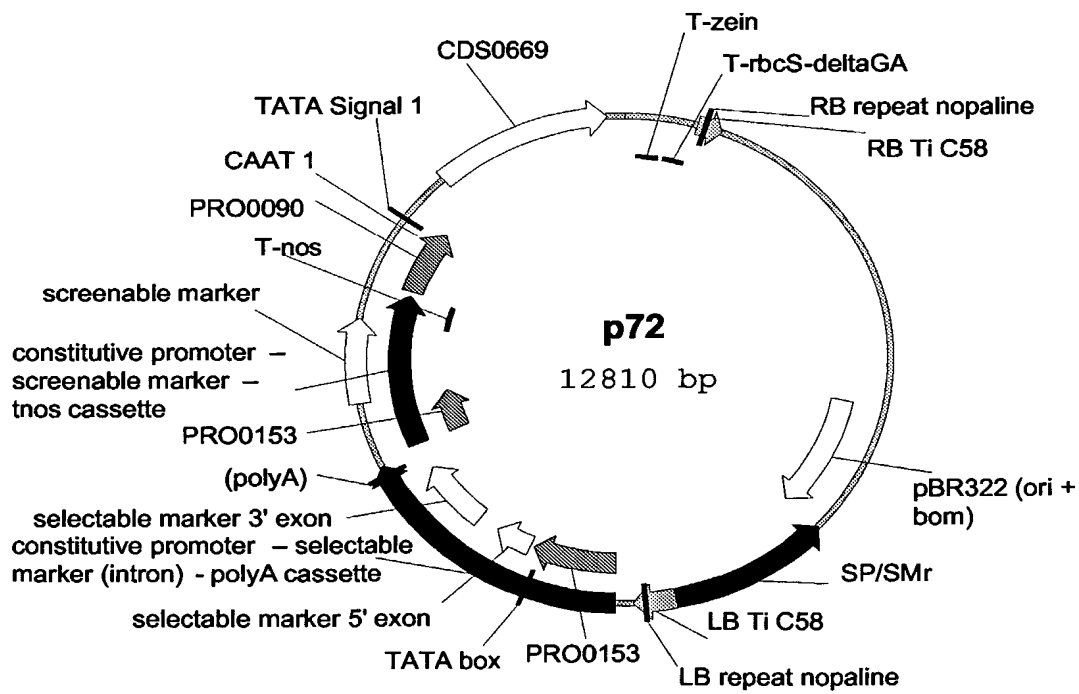


FIGURE 4

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**SEQ ID NO 1: GRUBX coding sequence**

atgggtgacatgaaggataaagtcaaagggttcatgaaaaaagtcacatcttcttcttccaggttaagttta  
aaggccaaggtagggttttgggtggttcatcttcttccaggaccctcaaatacatgtcaataatcttctc  
acatcccctaaatacaaggcaagatcaacaaccttcatatacaaaaacttcgcctcaaaaaccaagtaat  
tctgatcaaagaattgagaatatatgtgaaattcagttcaacaaaagtgaatcaaaggatgggttttgatc  
catttgggtgaattagtcacttctgggaagagaaaacccaaaagggtattcacttactaatgtgtttgaatg  
ccctgtctgtggttagtggttttgtttctgaagaagagggtgtcaactcatattgatagctgtttaagttct  
gaagtgtcttctaatttgggagttgaaagtaaagttgaagttaaaagtgaattggaaacatgtgttagtg  
catatgtttcagggaagccctcagaagggtcagttgaagtggtcattaagttgttaaagaatattgtgaa  
ggaaccagagaatgccaaagtttaggaaaataaggatggggaatccaaaaataaaagggtgctatagggtgat  
gttgtaggaggagtgaggactattggaatttgttggaatttgagttgaaagaagaagggtggggaaatttggg  
ctgtgatggatgttccttctgaagaacaacttgttatgtcttaagaatgtagtttcttcttggaaaccgaa  
gaaggttgaagagttggcgctccttatcccaagttaaggcgagtgaaaccagttgagccgaagaagattgat  
agacagattcgagtggttcttttctgttcccagagcgtagcagcaaaaattgagctacctgattccttct  
ttaacctctcacgtgaggaattgagaagagaagcagagatgaggaagaagaattagaagattccaaatt  
attgattcctaaatcttatcgggaaaagcaggcaaaaagctgcaagaaagaagtacacaaaatccattatc  
cgtgtacagtttccagatggagcattgttcaaggtgtctttctaccttcggagccaactagtgtctctt  
atgagtttgtgagcgcagcgttaaaggaaccaagcttagagttcgaattgttacatccgggtgcttgtaa  
aaagcgggtgattccccattttccagctgctggggagagggtgtaacagttgaagaggaggatttggtt  
cctgcagctctactcaaatttaaacctatcgaaacagattctgttgttttactgggtctttgtaatgagc  
ttcttgaaattagcgagccctcagagaccggatcagttgtcttctcgttaa

**SEQ ID NO 2: GRUBX, deduced protein sequence**

MGDMKDKVKGMKKVTSSSSGKFKGQGRVLGGSSSSGSPSNHVNFFSSHPLNTRQDQQPSYTKTSPQKPSN  
SDQRIENICEIQFNKSESKDGFDPFGELVTSKRNPKGYSLTNVFECPVCGSGFVSEEEVSTHIDSLSS  
EVSSNLGVESKVEVKSELETCVSAYVSGKPSEGSVVEVIKLLKNIVKEPENAKFRKIRMGNPKIKGAIGD  
VVGVELLEFVGFELKEEGEIVAVMDVPSEEQLVMLKNVVSLLPKKVEELASLSQVKASEPVEPKKID  
RQIRVFFSVPEVAAKIELPDSFFNLSREELRREAEMRKKKLEDSKLLIPKSYREKQAKAARKKYTKSII  
RVQFPDQALLQGVFLPSEPTSALEYFVSAALKEPSLEFELLHPVLVKKRVI PHFPAAGERAVTVEEDLV  
PAALLKFKPIETDSVVFTGLCNELLEISEPLETGSVASS

**SEQ ID NO 3: GRUBX orthologue from sugarcane**

atgatgaaggacaagatgaaggagttcatgaagaaggtcacctcctccgggtccgggacccccctcctcct  
tcaaggggcacctcccacgtcctcgggtccggccccctccccctcctcctcccacccccgtgcccgctcctc  
aaaccctagcccaaacctcaggccccgtcctaaagcggacctcgccacctaccccgccactttaaccacc  
gatttgacctccttcaagccccctcgtctgtactcctcccgccgccccgacgcgaacggcaccgcgnnng  
ccgtcgccaccgtcgcgtgccccagctgcggagacgcgtttccgtccgagctcgccgtctccgagcatct  
cgacggctgcctcgcgtcggcggggggccccgcgcgcgcgcgcgcgcgtacctcgccgcccagccgcct  
ccgcccgcggcctccgtagaggtggtcaaacgcctgctgggcaacctgctccgggagcccggcaacgata  
agttcaggcgggtgagattgggttaaccgcggatcaaggaggccctggcagacagggtgaggggggtgga  
gctcctggaggccgtcggcttcacagttggggatgagggcggggagcccttcgccgtgatggacgaagtg  
cctagcgaccctagggtcaacgggatcaggaggccgtcctcctgctcgagggggcacacccctctgcgc  
ctccagtgaaggcggaggtgaggccaaggagagctgcagcaatgtgtctgacgtgcaggaggggtgctaa  
gactattgatcggcagattcgggtatttgtctctgttccctgggagttctatggcacaaaatgatgtacca  
gattcttttttacaagcttagtggtgaggagataaggaatgaagcaaagatgaggaggggaaagggttagaac  
aatctcgattgctgataccaaagtcttacaaggagaaacaggcattggctgctcgacagaagtataaaca  
agcagtcattcgagttcagtttccagatagaatgattcttcaggggcatattcctaccaggagaggccact  
agttcactgtatgagttcgtcacatctgctctgaagcaatcaggtttggaattcgaacttatctctccag  
ccatacctaagccacgtgtggtgccccattttccaaacccgggagagcgggcacgcaccttgcaagagga  
ggagctgggtccatctgcgtcctcaagttcattccaaaggagactgattccatgggttttaccgggttg  
cttgatgagcttctcatggccagtgcgcgttccctgctgcatcacaatga

**FIGURE 5**

SEQ ID NO 4: sugarcane GRUBX orthologue, deduced protein sequence

SEQ ID NO 5: expression cassette comprising *GRUBX* (1011-2390) operably linked to the prolamine promoter (1-654) and the T-Zein + T-Rubisco deltaG terminator (2615-2808 and 2852-3048):

cttctacatcgcgcttaggtgtgtagcaacagcactttattattattattattattattattattattattattattattattatttttaca  
aaaataataaaatagatcagtcacctcaccacaagtagagcaagttgggtgagttattgttaaagttctacaaa  
gctaatttaaaagttattgcatctaacttatttcatattacaaacaagagtggtcaatggaacaatgaaaac  
catatgacatactataattttggtttttattattgaaattatataattcaaagagaataaatccacatagc  
cgtaaagttctacatgtgggtgcattacccaaaatatatatagcttacaaaacatgacaagcttagtttgaa  
aaattgcaatccttatcacattgacacataaagttagtgatgagtcataatattattttcttttgctaccc  
atcatgtatatatgatagccacaaagttactttgatgatgatatcaaagaacatttttaggtgcaccta  
cagaatatccaaataatatgactcacttagatcataatagagcatcaagtaaaactaacactctaaagca  
accgatgggaaagcatctataaatagacaagcacaaatgaaaatcctcatcatccttcaccacaattcaaa  
tattatagttgaagcatagtagtaatttaaatcaactagggatatcacaagtttgtaaaaaaagcaggc  
tggtaccgggtccggaattcccgggatatcgtcgacccacgcgtccgccaatatcagatttctttcatgaa  
ctccacttccaattttctcattgcttcttcttccatttccacctccaaagccatccttccagaaaacctt  
gttcccttacatttcttagcccccataaaagattcccattctcaattccacaaaaaacacaaggagatctaa  
ggaaattccccgcctctatatatagagaggtggaattgttccctgaatttggtttgaattgattgattgac  
agattttgggtgagaggggtgttattgaaaaaatgggtgacatgaaggataaagtcaaagggttcatgaaa  
aagtcacatcttcttcttcaggtaagtttaaggccaaggtagggttttgggtgggttcatcttcttcagg  
accctcaaattcatgtcaataatttttcatcacatcccctaaatacaaggcaagatcaacaaccttcatat  
acaaaaacttcgcctcaaaaaccaagtaattctgatcaaagaattgagaatatatgtgaaattcagttca  
acaaaagtgaatcaaaggatgggttttgatccatttgggtgaatttagtcacttctgggaagagaaacccaaa  
agggtattcacttactaatgtgtttgaatgcctgtctgtggtagtggttttgtttctgaagaagagggtg  
tcaactcatattgatagctgtttaaagttctgaagtgcttcttaatttgggagttgaaagtaaagttgaag  
ttaaagtgaaattggaacatgtgttagtgcatatgtttcagggaagccctcagaagggtcagttgaagt  
gggtcattaagttgttaaagaatatgtggaaggaaccagagaatgccagtttaggaaaataaggatgggg  
aatccaaaaataaaaaggtgctataggtgatgttgtaggaggagtgaggatattggaatttggttggatttg  
agttgaaagaagaaggtggggaaatttgggctgtgatggatgttccttctgaagaaacacttgtttatgct  
taagaatgtagtttctcttggaaaccgaagaaggttgaagagttggcgtccttatcccaagttaaggcg  
agtgaaccagttgagccgaagaagattgtatagacagattcgagtggttcttttctgttcccagagagcgtag  
cagcaaaaattgagctacctgattccttctttaaactctcacgtgaggaattgagaagagaagcagagat  
gaggaagaagaattagaagattccaaattattgattcctaattcttatcgggaaaagcaggcaaaagct  
gcaagaagaagatgacaaaatccattatccgtgtacagtttccagatggagcattgcttcaagggtgtct  
ttctaccttcggagccaactagtgtcttttatgagtttgtgagcgcagcgttaaaggaaaccaagcttaga  
gttcgaattgttacatccgggtgcttgttaaaaagcgggtgattccccattttccagctgctggggagagg  
gctgtaacagttgaagaggaggatttgggttcttgcagcttactcaaatttaaacctatcgaaacagatt  
ctgttgtttttactgggtctttgtaatgagcttcttgaaattagcgagccctcgagaccggatcagttgc  
ttcctcgtaagctctaaattacatcagactttgaattcttctgagtggttggaaccttataaaaactctct  
gcgccgggaatgctgcggccgctctagagtatccctcgagggggcccaagcttacgcgtaccagctttct  
tgtacaaagtggtgatatacacaagcccgggcggtcttctagggataacagggtaattatatccctctaga  
tcacaagcccgggcggtcttctacgatgattgagtaataatgtgtcacgcatcaccatgggtggcagtg

**FIGURE 5 (continued)**

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cagtgtgagcaatgacctgaatgaacaattgaaatgaaaagaaaaaagtactccatctgttccaaatta  
 aaattcatttttaaccttttaatataggtttataacaataattgatatatgttttctgtatatgtctaatttgt  
 tatcatccggcggtcttctagggataacagggttaattatatccctctagacaacacacaacaaataaga  
 gaaaaaacaataatattaatttgagaatgaacaaaaggaccatatcattcattaactcttctccatcca  
 tttccattttcacagttcgatagcgaaaaccgaataaaaaacacagtaaattacaagcacacaacaaatggta  
 caagaaaaacagttttcccaatgccataatactcgaac

**SEQ ID NO 6: *Oryza sativa* GRUBX orthologue, DNA sequence**

atgatgaaggaaaagatgaaggatctcatgaggaaggtcacctcctcctcctcctcctcctcgtcgtcct  
 cctccttcaagggcaccgccacgtcctcggtcgcggcccgacccctcctcccgccctccaaccctac  
 cctagtcgccccgtgcccccgggcgagaggccgcgcctccgcgagggccgcctcctccggcttcgcc  
 cctactccccgctcatctccacctcctcccgccgcaccgacccaccgcgggggcgggggcgggggagg  
 acgacgccgtcgctgccccagctgcgccgagccgttccccctccgagctggcggtgtcggaccacctcga  
 cggtgcctcgcgggcggggggagcccgcccccgcgcgccgcctacctggccggcgaccccccgcg  
 tccgccgtggaggtggtgaagaggtgctcggggaacctgctctccgacccccggaacgacaagtacagga  
 aggtcaggctcggggaacccgaggatcaaggaggccctggcggaacagggagggcggggtggatctcctcga  
 ggccgtgggggttcagggtcgccgacgagggcggggagctcttcgccctcatggacgaggtgccccggggac  
 gcgaggctcgggcgcatcaggcaggccgtgctcctgctcgagagggcccgccatcgacgccgccgcaga  
 cacaggcagatgccaaagagacttgcccgaatggagtttagcgaagagcaggggattaagaagccggttga  
 tcgtcagattcggggtgttcttctctgttgcagaaatgatctaccagattctttc  
 tatagccttagtaatgaggagatcaggaatgaggcaaagatgaggagggagaggctagaacaatctcgg  
 tgttgattccaaagtcatataaggagaagcaggcactggctgcccacagaagtataaacaagctctgat  
 tcgaattcagttttccggatggagtaattctgcagggtgtgttcttcccgcgagccattagttcacta  
 tatgagtttgcgcacatcttctttgaagcagccaagtttggaattcgatcttatctgtccagcgggtccta  
 ggacacgcgtcatacctcttctttccaaaaccagggggaacaggcacgcacactgcgggatgaagacctagt  
 cccttctgctcggtcaccttcaagcccaaagagactgattcggttgtgttcactggtctgttggacgag  
 cttcttgagaccagtgaagccgttcacatctgcacatcctcatga

**SEQ ID NO 7: *Oryza sativa* GRUBX orthologue, deduced protein sequence**

MMKEKMKDLMRKVTSSSSSSSSSSSFKGTAVLGSGLPSSSRPSNPTPSRPAAPRREAAASARPPSSGFA  
 PYSPLISTSSRRTPPAGAGAGEDDAVACPSCAEPFPSELAVSDHLDGCLAAAGGARPRAAAYLAGDPPA  
 SAVEVVKRLGNLLSDPRNDKYRKVRLGNPRIKEALADREGGVDLLEAVGFRVADEGGELFALMDEVPGD  
 ARLGGIRQAVLLERARPSTPPQTQADAKETCPNGVSEEQGIKKPVDRQIRVFFSVAASSVAENDLPDSF  
 YSLSNEEIRNEAKMRRERLEQSRLIPKSYKEKQALAAARQKYKQALIRIQFPDGVILQGVFLPAEPISSL  
 YEFVASSLKQPSLEFDLICPAGPRTRVIPPFPKPGEQARTLRDEDLVPSARLTFKPKETDSVVFTGLLDE  
 LLETSEPFTSASS

**FIGURE 5 (continued)**